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FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: SNS-015

APPLICANTS: Levene et al.

SERIAL NO.: 10/697,548

FILING DATE: October 30, 2003

GROUP: Not yet assigned

U.S. PATENT DOCUMENTS

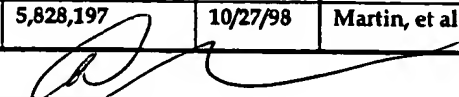
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WS	A1	3,531,868	10/06/70	Stevenson	33	174	04/18/68
	A2	3,920,972	11/18/75	Corwin et al.	235	151.1	07/16/74
	A3	3,944,798	03/16/76	Eaton	235	161.3	04/18/74
	A4	4,521,685	06/04/85	Rebman	250	229	03/01/82
	A5	4,604,016	08/05/86	Joyce	414	7	08/03/83
	A6	4,632,341	12/30/86	Repperger et al.	244	230	02/06/85
	A7	4,638,798	01/27/87	Shelden et al.	128	303B	09/10/80
	A8	4,653,011	03/24/87	Iwano	364	513	03/27/85
	A9	4,654,648	03/31/87	Herrington et al.	340	710	12/17/84
	A10	4,655,673	04/07/87	Hawkes	414	730	05/10/83
	A11	4,661,032	04/28/87	Arai	414	5	12/18/85
	A12	4,670,851	06/02/87	Murakami et al.	364	518	10/22/84
	A13	4,680,519	07/14/87	Chand et al.	318	568	09/23/85
	A14	4,703,443	10/27/87	Moriyasu	364	559	02/07/85
	A15	4,729,098	03/01/88	Cline et al.	364	414	06/05/85
	A16	4,769,763	09/06/88	Trieb et al.	364	559	06/16/86
	A17	4,791,934	12/20/88	Brunnett	128	653	08/07/86
	A18	4,819,195	04/04/89	Bell et al.	364	571.1	01/20/87
	A19	4,839,838	06/13/89	LaBiche et al.	364	709.1	03/30/87
	A20	4,853,874	08/01/89	Iwamoto et al.	364	513	11/20/87
	A21	4,907,973	03/13/90	Hon	434	262	11/14/88
	A22	4,942,538	07/17/90	Yuan et al.	364	513	02/23/89
	A23	4,945,305	07/31/90	Blood	324	207.2	04/11/89
	A24	4,945,501	07/31/90	Bell et al.	364	571.1	04/12/89
	A25	4,961,138	10/02/90	Gorniak	364	200	10/02/89
WS	A26	4,982,504	01/08/91	Söderberg et al.	33	502	02/17/89

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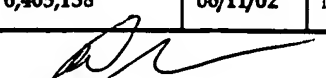
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EXAM. INIT.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
WS	A27	4,988,981	01/29/91	Zimmerman et al.	340	709	02/28/89
	A28	5,040,306	08/20/91	McMurtry et al.	33	556	02/20/89
	A29	5,053,975	10/01/91	Tsuchihashi et al.	364	513	06/08/89
	A30	5,072,361	12/10/91	Davis et al.	364	167	02/01/90
	A31	5,088,046	02/11/92	McMurtry	364	474	12/19/88
	A32	5,088,055	02/11/92	Oyama	364	560	02/22/90
	A33	5,105,367	04/14/92	Tsuchihashi et al.	395	99	10/16/89
	A34	5,131,844	07/21/92	Marinaccio et al.	433	72	04/08/91
	A35	5,185,561	02/09/93	Good et al.	318	432	07/23/91
	A36	5,189,806	03/02/93	McMurtry et al.	33	503	08/17/92
	A37	5,204,824	04/20/93	Fujimaki	364	474	08/23/90
	A38	5,237,647	08/17/93	Roberts, et al.	345	419	10/28/91
	A39	5,255,211	10/19/93	Redmond	364	578	02/22/90
	A40	5,333,257	07/26/94	Merrill, et al.	345	467	08/09/91
	A41	5,354,162	10/11/94	Burdea et al.	414	5	10/11/94
	A42	5,389,865	02/14/95	Jacobus et al.	318	568.1	12/02/92
	A43	5,396,265	03/07/95	Ulrich et al.	345	158	09/17/90
	A44	5,446,834	08/29/95	Deering	345	427	12/06/94
	A45	5,459,382	10/17/95	Jacobus et al.	318	568.1	06/09/94
	A46	5,482,051	01/09/96	Reddy et al.	128	733	04/06/94
	A47	5,497,452	03/05/96	Shimizu et al.	395	120	03/02/92
	A48	5,515,078	05/07/96	Greschler et al.	345	156	
	A49	5,555,894	09/17/96	Doyama et al.	128	782	05/02/94
	A50	5,587,937	12/24/96	Massie et al.	364	578	04/25/95
	A51	5,623,642	04/22/97	Katz et al.	395	500	04/06/94
WS	A52	5,625,576	04/29/97	Massie et al.	364	578	10/01/93
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EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WS	A53	5,629,594	05/13/97	Jacobus et al.	318	568.1	10/16/95
	A54	5,659,493	08/19/97	Kiridena, et al.	703	2	03/03/95
	A55	5,666,138	09/09/97	Culver	345	161	11/22/94
	A56	5,691,898	11/25/97	Rosenberg et al.	364	190	03/28/96
	A57	5,694,013	12/02/97	Stewart et al.	318	561	09/06/96
	A58	5,721,566	02/24/98	Rosenberg et al.	345	161	06/09/95
	A59	5,724,264	03/03/98	Rosenberg et al.	364	559	08/07/95
	A60	5,731,804	03/24/98	Rosenberg	345	156	01/18/95
	A61	5,734,373	03/31/98	Rosenberg et al.	345	161	12/01/95
	A62	5,737,505	04/07/98	Shaw et al.	395	119	10/15/96
	A63	5,739,811	04/14/98	Rosenberg et al.	345	161	09/27/95
	A64	5,751,289	05/12/98	Myers	345	419	01/16/96
	A65	5,769,640	06/23/98	Jacobus et al.	434	262	08/10/95
	A66	5,774,130	06/30/98	Horikawa, et al.	345	441	08/31/95
	A67	5,784,542	07/21/98	Ohm et al.	395	95	10/23/96
	A68	5,790,108	08/04/98	Salcudean et al.	345	184	10/23/92
	A69	5,798,752	08/25/98	Buxton et al.	345	146	02/27/95
	A70	5,800,177	09/01/98	Gillio	434	262	07/11/96
	A71	5,800,178	09/01/98	Gillio	434	262	07/11/96
	A72	5,800,179	09/01/98	Bailey	434	262	07/23/96
	A73	5,802,353	09/01/98	Avila et al.	395	500	06/12/96
	A74	5,803,738	09/08/98	Latham	434	29	08/05/96
	A75	5,805,140	09/08/98	Rosenberg et al.	345	161	11/17/95
	A76	5,821,920	10/13/98	Rosenberg et al.	345	156	03/28/97
	A77	5,825,308	10/20/98	Rosenberg	341	20	11/26/96
WS	A78	5,828,197	10/27/98	Martin, et al.	318	567	10/25/96
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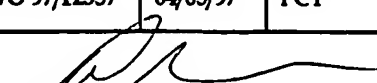
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WS	A79	5,831,408	11/03/98	Jacobus, et al.	318	568.1	05/12/97
	A80	5,844,392	12/01/98	Peurach et al.	318	568.2	05/21/97
	A81	5,847,956	12/08/98	Bronfeld, et al.	700	98	09/26/96
	A82	5,859,934	01/12/99	Green	382	296	01/14/97
	A83	5,872,438	02/16/99	Roston	318	568.11	07/01/97
	A84	5,873,106	02/16/99	Joseph	715	506	09/18/95
	A85	5,882,206	06/16/99	Gillio	434	262	03/29/95
	A86	5,889,670	03/30/99	Schuler et al.	364	186	01/11/96
	A87	5,898,599	04/27/99	Massie, et al.	345	161	12/23/96
	A88	5,903,456	05/11/99	Schena et al.	364	190	01/27/97
	A89	5,907,487	05/25/99	Rosenberg et al.	364	190	04/02/97
	A90	5,913,727	06/22/99	Ahdoot	463	39	06/13/97
	A91	5,956,484	09/21/99	Rosenberg et al.	395	200.3	08/01/96
	A92	5,963,212	10/05/99	Bakalash	345	424	06/11/97
	A93	5,973,678	10/26/99	Stewart et al.	345	184	08/29/97
	A94	5,988,862	11/23/99	Kacyra, et al.	703	6	04/24/96
	A95	6,084,587	07/04/00	Tarr et al.	345	419	02/08/96
	A96	6,111,577	08/29/00	Zilles, et al.	345	701	04/04/96
	A97	6,191,796 B1	02/20/01	Tarr	345	433	01/21/98
	A98	6,211,848	04/03/01	Plesniak, et al.	345	156	02/09/99
	A99	6,226,003	05/01/01	Akeley	345	419	08/11/98
	A100	6,308,144	10/23/01	Bronfeld, et al.	703	2	09/26/96
	A101	6,337,678 B1	01/20/02	Fish	345	156	07/21/99
	A102	6,342,880 B2	01/20/02	Rosenberg et al.	345	161	10/06/99
	A103	6,369,834	04/09/02	Zilles, et al.	345	701	06/02/99
WS	A104	6,405,158	06/11/02	Massie, et al.	703	6	03/12/99
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WS	A105	6,417,638	07/09/02	Guy, et al.	318	560	07/16/99
	A106	6,421,048	07/16/02	Shih, et al.	345	419	06/28/99
	A107	6,552,722	04/22/03	Shih, et al.	345	19	07/06/99
	A108	6,608,631	08/19/03	Milliron	345	647	05/02/00
	A109	6,671,651	12/30/03	Goodwin, et al.	702	152	04/26/02
	A110	6,792,398	09/14/04	Handley, et al.	703	2	07/14/99
	A111	6,831,640	12/14/04	Shih, et al.	345	419	02/26/03
	A112	6,853,965	02/08/05	Massie, et al.	703	6	11/16/01
	A113	6,867,770	03/15/05	Payne.	345	643	12/14/01
	A114	6,879,315	04/12/05	Guy, et al.	345	156	05/13/02
	A115	20020089500	07/11/02	Jennings, et al.	345	420	12/14/01
	A116	20050001831	01/06/05	Shih, et al.	345	419	05/12/04
	A117	20050062738	03/24/05	Handley, et al.	345	419	07/27/04
	A118	20050093821	05/05/05	Massie, et al.	345	161	10/30/03
	A119	20050128210	06/16/05	Berger	345	582	12/10/03
WS	A120	20050128211	06/16/05	Berger, et al.	345	582	12/10/03

FOREIGN PATENT DOCUMENTS									
EXAM INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)	
WS	B1	WO 95/02801	01/26/95	PCT	G01B	7/03	07/12/94	N Y	
	B2	WO 96/16397	05/30/96	PCT	G09G	5/08	11/22/95	N Y	
	B3	WO 96/22591	07/25/96	PCT	G09G	5/00	01/17/96	N Y	
	B4	WO 96/42078	12/27/96	PCT	G09G	3/02	06/07/96	N Y	
	B5	WO 97/06410	02/20/97	PCT	G01C	7/00	07/29/96	N Y	
	B6	WO 97/12337	04/03/97	PCT	G06F	19/00	09/25/96	N Y	
WS	B7	WO 97/12357	04/03/97	PCT	G09G	5/00	09/25/96	N Y	

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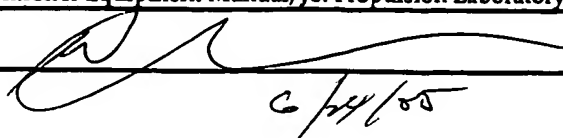
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FOREIGN PATENT DOCUMENTS									
EXAM INIT.	DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)	
WS	B8	WO 97/19440	05/29/97	PCT	G09G	5/00	11/05/96	N Y	
	B9	WO 97/21160	06/12/97	PCT	G06F	N/A	11/26/96	N Y	
	B10	WO 97/44775	11/27/97	PCT	G09G G06G B25J G05B G06F G06G A03B	5/08 3/00 9/18 19/19 19/408 17/00 7/48 71/00 24/00	05/16/97	N Y	
	B11	WO 98/06024	02/12/98	PCT	G06F	3/00 15/16 17/30	07/31/97	N Y	
	B12	WO 98/26342	06/18/98	PCT	G06F	N/A	11/25/97	N Y	
	B13	WO 98/30951	07/16/98	PCT	G06F	3/02	01/07/98	N Y	
	B14	WO 98/58308	12/23/98	PCT	G06F	3/033	06/15/98	N Y	
	B15	WO 98/58323	12/23/98	PCT	G06F	15/00	06/16/98	N Y	
	B16	WO 99/10872	03/04/99	PCT	G09G	5/00	08/21/98	N Y	
WS	B17	EP0915434 A2	05/12/99	EP	G06T	15/50	05/14/98	N Y	
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
WS	C1	Adachi, "Touch and Trace on the Free-Form Surface of Virtual Object", Proceedings of IEEE Virtual Reality Annual International Symposium, September 18-22, 1993, Seattle WA, pgs. 162-168.							
	C2	Agrawala et al., "3D Painting on Scanned Surfaces", Stanford University, 1995, pgs 145-150.							
	C3	Barr, "Global and Local Deformations of Solid Primitives", COMPUTER GRAPHICS; Vol. 18, No. 3, pgs. 21-30 (July, 1984).							
	C4	Blinn, "Simulation of Wrinkled Surfaces," COMPUTER GRAPHICS, Volume 12-3, August 1978, pages 286-292.							
	C5	Brooks et al., "Project GROPE - Haptic Displays for Scientific Visualization," COMPUTER GRAPHICS, Vol. 24, No. 4, August 1990, pgs. 177-185.							
WS	C6	Decaudin, "Geometric Deformation by Merging a 3D-Object with a Simple Shape," Graphics Interface '96 Proceedings (Toronto, Canada), 6 pgs. (May 21-24, 1996).							
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NS	C7	Dworkin et al., "A New Model for Efficient Dynamic," Fourth Eurographics Animation and Simulation Workshop Proceedings Eurographics Technical Report Series, ISSN 1017-4656, September 4-5, 1993, pp. 135-147.
	C8	Elhajj et al., "Supermedia-Enhanced Internet-Based Telerobotics," Proceedings of the IEEE, Vol. 91, No. 3, pp. 396-421 (March 2003).
	C9	Foskey, M. et al., "ArtNova: Touch-Enabled 3D Model Design," IEEE Virtual Reality 2002, pp. 119-126 (March 2002)
	C10	Fuentes et al., "The Virtual Tool Approach to Dextrous Telemanipulation," Proceedings of the 1996 IEEE International Conference on Robotics and Automation (Minneapolis, MN), pp. 1700-1705 (April 1996).
	C11	Galyean, "Sculpting: An Interactive Volumetric Modeling Technique," Computer Graphics (SIGGRAPH '91 Las Vegas), Vol. 25, No. 4, pp. 267-274 (July 1991).
	C12	Hashimoto et al., "Dynamic Force Simulator for Force Feedback Human-Machine Interaction", IEEE, September 1993, pp. 209-215.
	C13	Hirata et al., "3-Dimensional Interface Device for Virtual Work Space," Proceedings of the 1992 IEEE, July 7-10, 1992, pp. 889-896.
	C14	Hirota et al., "Providing Force Feedback in Virtual Environments", IEEE, September 1995, pp. 22-30.
	C15	Hirota et al., "Development of Surface Display," Proceedings of the Virtual Reality Annual International Symposium (Seattle), pp. 256-262 (September 18-23, 1993).
	C16	Immersion Corporation, "Laparoscopic IMPULSE ENGINE: A New FORCE FEEDBACK Surgical Simulation Tool", Immersion Corporation, 1995. http://www.immerse.com/wwwpages/lapiEpg.htm
	C17	Immersion Corporation, "The IMPULSE ENGINE", 1 page, Immersion Corporation, 1996.
	C18	Immersion Corporation, "Virtual Laparoscopic Interface", Immersion Corporation, 1995, 1 pg.
	C19	Ishii et al., "A 3D Interface Device with Force Feedback: A Virtual Work Space for Pick-and-Place Tasks", IEEE, September 1993, pp. 331-335.
	C20	Iwata, "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics (SIGGRAPH '90 Dallas), Vol. 24, No. 4, pp. 165-170 (August 1990).
	C21	Kelley et al. "MagicMouse: Tactile and Kinesthetic Feedback in the Human-Computer Interface Using an Electromagnetically Actuated Input/Output Device," Department of Electrical Engineering, University of British Columbia, Vancouver, BC, V6T 1Z4, Canada, October 19, 1993, pp. 1-27.
	C22	Kotoku et al., "A Force Display Algorithm for Virtual Environments," SICE, pp. 347-355, 1992.
	C23	Luo et al., "Networked Intelligent Robots Through the Internet: Issues and Opportunities," Proceedings of the IEEE, Vol. 91, No. 3, pp. 371-382 (March 2003).
	C24	Marcus et al., "EXOS Research on Master Controllers for Robotic Devices," Fifth Annual Workshop on Space Operations Applications and Research (SOAR '91) pp. 238-245, July 1991.
	C25	Massie, "Design of a Three Degree of Freedom Force-Reflecting Haptic Interface", Massachusetts Institute of Technology; Bachelor of Science in Electrical Science and Engineering Thesis, May, 1993, pgs. 1-38.
	C26	Massie, "Initial Haptic Explorations with the Phantom: Virtual Touch Through Point Interaction", Massachusetts Institute of Technology Master of Science Thesis, February, 1996, pgs. 1-49. (not admitted as prior art)
NS	C27	McAfee et al, "Teleoperator Subsystem/Telerobot Demonstrator," Force Reflecting Hand Controller Equipment Manual, Jet Propulsion Laboratory, January 1988.

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WS	C28	Millman et al., "A System for the Implementation and Kinesthetic Display of Virtual Environments," <u>Telemanipulator Technology</u> , Proceedings of 1992 SPIE, Vol. 1833, pp. 49-56.
	C29	Minsky et al., "Feeling and Seeing: Issues in Force Display," <u>COMPUTER GRAPHICS</u> , Vol. 24, No. 2, March 1990, pgs. 235-270.
	C30	Minsky, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," <u>Massachusetts Institute of Technology Ph.D. Thesis</u> , June, 1995, pgs. 1-217.
	C31	Morgenbesser, "Force Shading for Shape Perception in Haptic Virtual Environments", <u>Massachusetts Institute of Technology Master of Engineering Thesis</u> , September, 1995, pgs. 1-77.
	C32	Oboe, "Force-Reflecting Teleoperation Over the Internet: The JBIT Project," <u>Proceedings of the IEEE</u> , Vol. 91, No. 3, pp. 449-462 (March 2003).
	C33	Payne et al., "Distance Field Manipulation of Surface Models," <u>IEEE Computer Graphics & Applications</u> , pp. 65-71 (January 1992).
	C34	Porter et al., "Compositing Digital Images", <u>Computer Graphics</u> , Volume 18. Number 3, July 1984, pgs. 253-259
	C35	Safaric et al., "Control of Robot Arm with Virtual Environment via the Internet," <u>Proceedings of the IEEE</u> , Vol. 91, No. 3, pp. 422-429 (March 2003).
	C36	Salisbury et al., "Haptic Rendering: Programming Touch Interaction with Virtual Objects," Presented and disseminated at the 1995 Symposium on Interactive 3D Graphics held April 9-12, 1995 in Monterey, CA, sponsored by the Association for Computing Machinery (ACM) and published by the ACM in <u>Proceedings: 1995 Symposium on Interactive 3D Graphics</u> , Monterey, California, April 9-12, 1995, pgs. 123-130.
	C37	SensAble Technologies, Inc., "Phantom Haptic Interface," 1996, Cambridge, MA (6 pgs).
	C38	Snow et al., "Compact Force-Reflecting Hand Controller," <u>NASA Tech Brief</u> , Vol. 15, No. 4 from Jet Propulsion Laboratory Report NPO-17851-7348, April 1991, pgs. i, 1-3, 1a-11a, 14a, 15a.
	C39	Swarup, "Haptic Interaction with Deformable Objects Using Real-Time Dynamic Simulation", <u>Massachusetts Institute of Technology</u> , September 1995, pgs. 1-83.
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EXAMINER

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